Receiving Report Date: Supplier: Dart P/O: Packing Slip: Yes(No Release Note Attached: No Invoice: Yes No Waybill Attached: Yes Receipt: Cash Shipment Complete: N/A QC6 Inspection N/A Work Order N/A Discrepancies Part Quantity Quantity Quantity Quantity Description Number Comments Ordered Received Returned Short 6/008-003/ Ò Initials of receiver (if shipment OK) Level 12 Production/Admin:

Date

Received/Costing

Initial -

Location

H:\FORMS\Purchasing\approved purch\RECREPORT Rev D

Purchase Order Receipt Listing

Thursday, May 12, 2011 11:33:29 AM

All amounts are calculated in domestic currency.

All Vendors PO ID po13976 All Receipt Dates All Line Item Types All Item ID/GL/WOs All Rec. Employees All Currencies Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
VendorID\Ven	dor Name	vc-c	COP001 Thysse	nkrupp Materials C	A Ltd						
PO13976	2		D6104-005P	Each	5/6/20 1	5/12/2011	10.0000	\$82.50	0.0000	0	\$825.00
CAD	No		17-4 SS Roundbar 4.00"OD 68922/117684	Each	10.0000	DESJ02		\$825.00	0.0000	0	
	3		M2024T3S.020	sf	. 5/6/2011	5/12/2011	48.0000	\$2.86	0.0000	0	\$137.50
	No	·	Alum. sheet .020 68922/117684	sf	48.0000	DESJ02		\$137.50	0.0000	0	
	4		M2024T3S.040	sf	5/6/2011	5/12/2011	192.0000	\$3.32	0.0000	0	\$638.00
	No		2024-T3 .040 sheet 68922/117684	sf	196.0000	DESJ02		\$638.00	. 0.0000	0	
	5		M2024T3S.050	sf	5/6/2011	5/12/2011	144.0000	\$4.15	0.0000	0	\$597.00
	No		2024-T3 .050 sheet 68922/117684	sf	144.0000	DESJ02		\$597.00	0.0000	0	
									Total Received C	uantity:	394.0000
								Total	Qty to Inspect (P	O U/M):	0.0000
									Total Reject C	uantity:	0.0000
									Total Receip	t Value:	\$2,197.49
·								То	tal Balance Due Ç	uantity:	0.0000

· 2011-May-11 10:28 AM

```
BILL
                              O F
                                    LADING
                                                                      PEC 710428
                                                               No:
Ship From:
                                           Ship Date 12May11 at 13:36 From PFW
THYSSENKRUPP MATERIALS NA
                                           Probill
2821 LANGSTAFF ROAD
                                                 VIM TRANSFER TRUCK
                                           Via
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 9057389033
                                                 CONCORD
                                           FOB
                                           Frt
                                                 PREPAID
                                                    0- 0 Manifest
                                           Route
                                           Vhcle
                                                               Trailer
                                                 STAN IVERS (905-532-1350)
                                           Slp
Ship To:
DART AEROSPACE
                                           Sold To:
                                                       (20115)
                                           DART AEROSPACE
1270 ABERDEEN ST
                                           1270 ABERDEEN ST
                                           HAWKESBURY, ON K6A 1K7
HAWKESBURY, ON K6A 1K7
Tel: 613-632-9577 Fax: 613-632-1053
```

BILL OF LAD 1) Our Order PEC-326915- 1 Your PO # 1397 Part # ASTM A564 Rel STAINLESS STEEL ROUND BAR 17-4 HFRT 4.00" DIA X 5.1000" Heat Number Tag No G17441 193157	76
2) Our Order PEC-326915- 2 Your PO # 1397 Part # QQ-A-250/4 Rel ALUMINUM SHEET 2024 -T3	
Heat Number Tag No 183665 193158	Quantity PCS Wt LBS 192.00 SFT 4 111
3) Our Order PEC-326915- 3 Your PO # 1397 Part # 4-6 DAYS A.R.O QQ-A-250/4 Rel ALUMINUM SHEET 2024 -T3 .0500 Nom X 48.0000" X 144.0000" Heat Number Tag No 537782A5 193160	
4) Our Order PEC-326915- 4 Your PO # 1397 ALUMINUM SHEET 2024 -T3 .0200 Nom X 48.0000" X 144.0000" Heat Number Tag No 526944A4 193161	Quantity PCS Wt LBS 48.00 SFT 1 14
Т	Tags PCS LBS OTAL: 4 18 411

Page: 1Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÉTRE RAPPORTÉES IMMÉDIATEMENT. ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.

MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR AFFROVAL NUMBER.

DATE

Dart Aerospace Ltd

DATE STED DOCEDIDE CHANCE Pv Data Oty asistes i Pv Data							S	ANGE	ORDER CH	ORK C	V				W/O:
	oval pector	Appro QC Insp	Approval Chief Eng / Prod Mgr	Qty	Date	y I	Ву			IANGE	EDURE CH	PROCI		STEP	DATE
		ı												ļ	·
												.		i	
Part No: PAR #: Fault Category: NCR: Yes No DQA: Date:			Date:	A:	o DQ /	Yes No	NCR: Y			tegory: _	Fault Ca	R #:	PAI		Part No
Resolution: Disposition: QA: N/C Closed: Date:									1						
NCR: WORK ORDER NON-CONFORMANCE (NCR)			1			NCR)	ICE (N	RMAN	ON-CONF	DER N	ORK OR	W			NCR:
	oval	Appr QC Ins				ian &					Initial	f NC		STEP	DATE
Section A Section A Section A Section A Section C Section C Chief Eng Chief	pector	QC ins	Chief Eng	on C	Secti						1		Section A		
				<u> </u>											
														ļ	
		 			i i			<u> </u>							
	-														

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BILL
                          O F
                               LADING
                                                     No: PEC 710428
  Ship From:
                                     Ship Date 12May11 at 13:36 From PFW
  THYSSENKRUPP MATERIALS NA
                                    Probill
  2821 LANGSTAFF ROAD
                                    Via
                                         VIM TRANSFER TRUCK
  CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 9057389033
                                          CONCORD
                                    FOB
                                    Frt
                                          PREPAID
                                           0- 0 Manifest
                                    Route
                                    Vhcle
                                                     Trailer
                                    Slp
                                         STAN IVERS (905-532-1350)
  Ship To:
                                    Sold To:
                                            (20115)
  DART AEROSPACE
                                    DART AEROSPACE
```

BILL OF LADING

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR TO SHIPPING.
ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
** REFERENCED ON IT **

TOTAL 3 SKIDS, 1 CUSH G.W. 656 LBS

ITEM (1) SKID ITEM (2) SKID ITEM (3) SKID ITEM (4) CUSH

. 69

Page: 2 Last

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE RAPPORTÉES IMMÉDIATEMENT. ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT. MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

DATE

Dart Aerospace L

W/O:		·	M	ORK ORDER CH	IANGES					
DATE	STEP	PRO	CEDURE CH	ANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
		* 								
Part No	:	PAR #:	Fault Ca	tegory:	NC	R: Yes	No DQ	A:	Date: _	
	R	esolution:	Disposit	ion:	Q.	A: N/C Cld	sed:		Date: _	
NCR:		\	WORK OR	DER NON-CONF	DRMANC	E (NCR)			
DATE	OTED	Description of NC		Corrective Action	I		Verific	cation	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Descri Chief Eng	ption	Sign & Date		ion C	Chief Eng	QC Inspector
	:									
	1									
		,								

Ship From: BILL OF THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ONTARIO L4K 5C6 Tel: 905 669 9444 Fax: 9057389033

Ship To: (1) DART AEROSPACE 1270 ABERDEEN ST HAWKESBURY, ON K6A 1K7 Tel: 613-632-9577 Fax: 613-632-1053

L A D I N G No: PEC 710428 Ship Date 12May11 at 13:36 From PFW Probill Via VIM TRANSFER TRUCK FOB CONCORD Frt PREPAID Route 0- 0 Manifest

Vhcle Trailer Slp STAN IVERS (905-532-1350) Sold To: (20115)

DART AEROSPACE DAKI AEROSPACE 1270 ABERDEEN ST

HAWKESBURY, ON K6A 1K7

BILL OF LADING

1) Our Order PEC-326915- 1 Your PO # 13976

Part # ASTM A564 STAINLESS STEEL ROUND BAR 17-4 HFRT 4.00" DIA X 5.1000" Heat Number Tag No Quantity PCS G17441 193157 4 3.0000 10 2) Our Order PEC-326915- 2 Your PO # 13976

Part # QQ-A-250/4 Rel # ALUMINUM SHEET 2024 -T3

.0400 Nom X 48.0000" X 144.0000"

3) Our Order PEC-326915- 3 Your PO # 13976 Part # 4-6 DAYS A.R.O QQ-A-250/4 Rel # ALUMINUM SHEET 2024 -T3

ALUMINUM SHEET 2024 -T3
.0500 Nom X 48.0000" X 144.0000"
Heat Number Tag No Quantity PCS
537782A5 193160 144.00 SFT 3

104

182

4) Our Order PEC-326915- 4 Your PO # 13976

ALUMINUM, SHEET 2024 -T3

.0200 Nom X 48.0000" X 144.0000"

Heat Number Tag No Quantity PCS
526944A4 193161 48.00 SFT 1

Wt LBS

Tags PCS (TOTAL: 4 18

LBS

Page: 1Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT. MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

RECU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION TVQ/QST# 1017327981 TQ001 TPS/GST TVH/HST # 140223934 RT0001

DATE

BILL OF LADING PEC 710428 No: Ship Date 12May11 at 13:36 From PFW Ship From: THYSSENKRUPP MATERIALS NA Probill VIM TRANSFER TRUCK 2821 LANGSTAFF ROAD Via CONCORD, ONTARIO L4K 5C6 Tel: 905 669 9444 Fax: 9057389033 CONCORD FOB Frt PREPAID Route 0- /0 Manifest Vhcle Trailer STAN IVERS (905-532-1350) Slp Sold To: (20115) Ship To: DART AEROSPACE DART XEROSPACE BILL MILL TEST REPORTS, PACKING SLIPS ARE TO SENT WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR TO SHIPPING. ATTN: CHANTAL/LINDA ** ALL PACKING SLIPS MUST HAVE THE HEAT MUMBER ** ** REFERENCED ON IT ** TOTAL 3 SKIDS, 1 CUSH G.W. 656 LBS ITEM (1) SKID ITEM (2) SKID ITEM (3) SKID ITEM (4) CUSH *CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA CONCORD, ONT.* *** 9:00 AM TO 4:00 PM **** TEL. 800-926-2600 **** ****************** WE STOCK STAINLESS STEEL PLEASE LET US QUOTE YOUR NEXT REQUIREMENT ************ ***PLEASE NOTE A \$20.00 ENERGY SURCHARGE WILL BE ADDED TO EVERY ORDER. ***

Page: 2 Last

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.
ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY
RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.

MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

BILL OF Ship From: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ONTARIO L4K 5C6 Tel: 905 669 9444 Fax: 9057389033

L A D I N G No: PEC 710428 Ship Date 12May11 at 13:36 From PFW Probill Via VIM TRANSFER TRUCK FOB CONCORD Frt PREPAID Route 0- 0 Manifest Vhcle Trailer STAN IVERS (905-532-1350) Slp Sold To: (20115)DART AEROSPACE

Ship To: (1)
DART AEROSPACE

BILL OF LADI/NG

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **

** REFERENCED ON IT **

TOTAL 3 SKIDS, 1 CUSH G.W. 656 LBS

ITEM (1) SKID VITEM (2) SKID VITEM (3) SKID ITEM (4) CUSH

CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA CONCORD, ONT. *** 9:00 AM TO 4:00 PM ***

**** TEL. 800-926-2600 ****

PLEASE-LET US QUOTE YOUR NEXT REQUIREMENT

3 Orales Al

Page: 2 Last ///

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT. MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

11/1/12

DATE

CERTIFICATE OF TESTS

TALLEY METALS A Carpenter Company

Talley Metals Technology, Inc. P.O. Box 2498 Hartsville, SC. 29551 Tel. (843) 335-7540 Fax. (843) 335-6465

> 2011-04-13 CUSTOMER / BESTELLER / CLIENT

ABNAHMEPRUEFZEUGNIS

CERTIFICAT DE CONTROLE

THE RECORDING OF FALSE, FICTICIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE THE RECORDING OF PALSE, THE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47.

THE VALUE AND OTHER TECHNICAL DATA REPRESENT THE RESULTS OF ANALYSIS AND TESTS MADE ON SAMPLES COLLECTED FROM THE TOTAL LOT. ORIGINAL DATA RECORDS CAN BE TRACED BY REFERENCE TO THE CARPENTER ORDER NUMBER

ONDER NUMBER
MATERIAL IS MANUFACTURED FREE FROM MERCURY, RADIUM AND ALPHA SOURCE CONTAMINATION
THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF CARPENTER
TECHNOLOGY CORPORATION.

SELLER / VERKÄUFER / VENDEUR

Page - 1

CUSTOMER ORDER NO./BESTELL - NR./N* DE COMMANDE	CARPENTER NO./WERKS - NR./N° DE REFERENCE INTERNE	DATE/DATUM/DATE	WEIGHT/GEWICHT/POIDS
5400095931-0120	W92633 W92633	2011-04-13	2525.0

HEAT NUMBER / SCHMELZE-NR / N° DE COULEE:

G17441

PRODUCT DESCRIPTION: TYPE 17-4 SOLUTION ANNEALED ROUGH TURNED

------ PART NUMBER: SSRD00474

SPECIFICATION: TALLEY 174-T1A CAP OF H900 (01/11/99)

AMS 2303 REV F (08//10)

AMS 2315 REV F (01//08)

AMS 5643 REV R (02//08)

ASTM-A484-10 ASTM-A564-10

ASME-SA564 2010 EDITION (TYPE 630)

ASTM-F899-10 (CHEM ONLY)

4.000000 IN.(101.60 MM) RD SIZE

PRIMARY HEAT CHEMISTRY (WT%): (TEST METHOD IS SHOWN IN PARENTHESIS)

S (COM) CR (XRF) SI(XRF) P (XRF) MN (XRF) C (COM) 0.020 15.34 0.027 0.42 0.021 0.84

CB (XRF) TA (XRF) CU(XRF) N (FUS) MO (XRF) NI (XRF) LT .01 3.70 0.034 0.26 0.17 4.25

CB+TA 0.27

THIS HEAT MELTED BY THE ELECTRIC ARC/AOD PROCESSES

DISCS MACROETCHED AND APPROVED

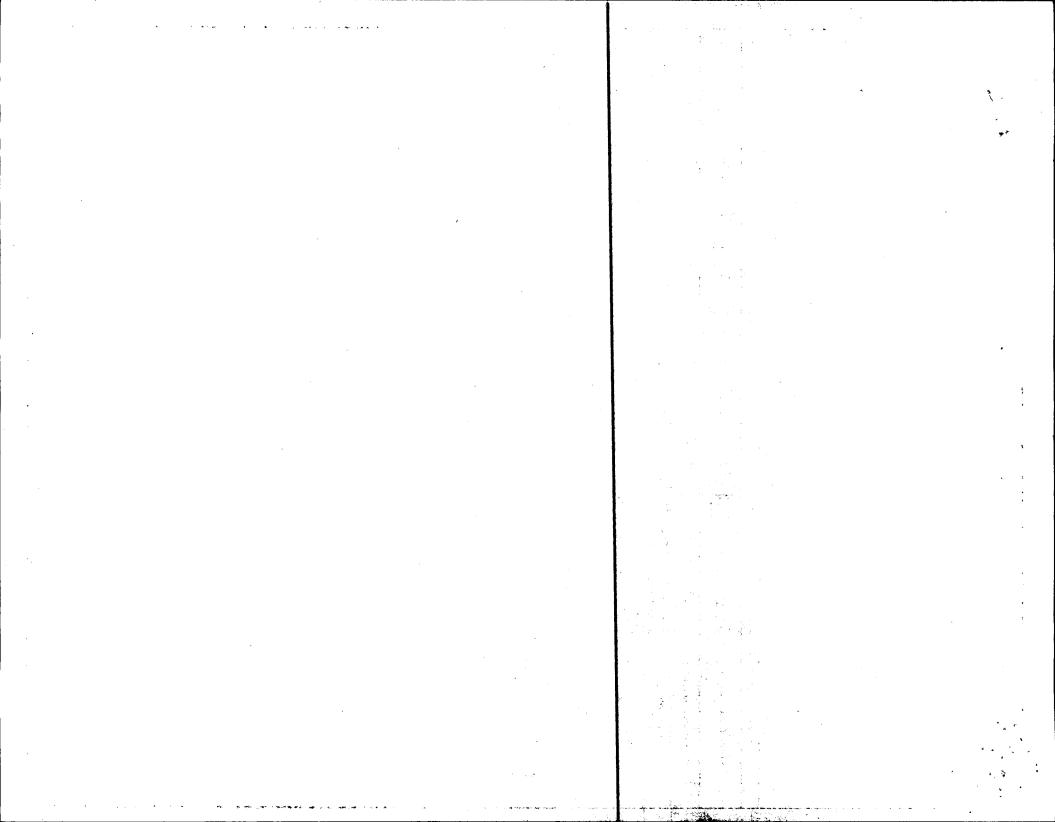
(MIDRADIUS) 360 HARDNESS AS SHIPPED, HBW

MAGNETIC PARTICLE: FREQUENCY = 0 / SEVERITY = 0

MICROSTRUCTURE - FERRITE

SOLUTION ANNEALED - 1900 F, 1 HOUR - RAPID COOL

CONTINUED ON NEXT PAGE



CERTIFICATE OF TESTS

TALLEY METALS A Carpenter Company

Talley Metals Technology, İnc. P.O. Box 2498 Hartsville, SC. 29551 Tel. (243) 335-7540 Fax. (843) 335-6465

2011-04-13
CUSTOMER / BESTELLER / CLIENT

ABNAHMEPRUEFZEUGNIS

CERTIFICAT DE CONTROLE

THE RECORDING OF FALSE, FICTICIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47. THE VALUE AND OTHER TECHNICAL DATA REPRESENT THE RESULTS OF ANALYSS AND TESTS MADE ON SAMPLES COLLECTED FROM THE TOTAL LOT. ORIGINAL DATA RECORDS CAN BE TRACED BY REFERENCE TO THE CARPENTER ORDER NUMBER

UNIDER NUMBER
MATERIAL IS MANUFACTURED FREE FROM MERCURY, RADIUM AND ALPHA SOURCE CONTAMINATION
THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF CARPENTER
TECHNOLOGY CORPORATION.

SELLER / VERKÄUFER / VENDEUR

Page - 2

CUSTOMER ORDER NO/BESTELL - NR./N* DE COMMANDE	CARPENTER NO./WERKS - NR./N° DE REFERENCE INTERNE	DATE/DATUM/DATE	WEIGHT/GEWICHT/POIDS
5400095931-0120	W92633 W92633	2011-04-13	2525.0

HEAT NUMBER / SCHMELZE-NR./N° DE COULEE:

G17441

CAPABILITY

900 F(482 C), 01 HR

AIR COOL

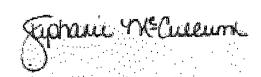
(T) RANSVERSE (L) ONGITUDINAL YIELD STRENGTH, (0.20 %) KSI (MPA) TENSILE STRENGTH, KSI (MPA) ELONGATION IN 2.00", % REDUCTION OF AREA, % HARDNESS, HBW -

188.0 (1296) 206.0 (1420) 13.0 42.0 408.0

(CONVERTED FROM TENSILE STRENGTH)

NO WELD REPAIR PERFORMED
MATERIAL PRODUCED ON THIS ORDER WAS MELTED AND MANUFACTURED IN THE U.S.A.
MATERIAL HAS BEEN MELTED IN USA OR QUALIFYING COUNTRY TO DFARS REQUIREMENTS 252.225-7014 WITH ALTERNATE 1 FOR QUALIFYING COUNTRY 225.872.1,
SUPERSEDED BY DFARS REQUIREMENTS DFARS 252.225-7008 AND 252.225-7009.
WE HEREBY CERTIFY THAT THE ABOVE TEST DATA ARE IN ACCORDANCE WITH THE
PURCHASE ORDER AND SPECIFICATION REQUIREMENTS. CERTIFICATE OF TEST IS
PREPARED IN ACCORDANCE WITH PARAGRAPH 3.1 OF EN 10204 (DIN50049)

STEPHANIE E. MCCULLUM QUALITY ASSURANCE ENGINEER CARPENTER TECHNOLOGY CORPORATION



Copper & Brass Sales

Customer. THEC-2299
Customer PO. Weight: Weight: Ship/Delv#: 240124648

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INSPECTION CERTIFICATE (EN 10204/3.1) / TEST REPORT / APPROVED CERTIFICATE

NO.: 1178149 SERIAL-NO.: PURCHASER: CHARLESTON ALUMINIUM

PAGE: 1 / 03

PURCHASER: CHARLESTON ALUMINIUM TRADING CO. GASTON, SC ORDER NO. PURCH.:7679-01/4631-E-01

ORDER NO. MAN.: 90Z36

AMS4037+8209+QQ250/4

CUSTOMER PART NO.:

ITEM: 01 LOT: 183665

ALLOY/TEMPER: 2024-T3 BARE

PRODUCT: COIL

QUANTITY: 306 DIMENSIONS: 0.040 x 48.00 x 144.00 INS

SPEC. :

RESULTS:

Mechanical properties:

Charleston Aluminum LLC 480 Frontage Rd. Gaston, SC 29053

Pl. No. Spec. No. Y.S. U.T.S. El.

		KSI	KSI	%
Min. Max.		42,0	63,0	15,0
1	A	44,7	66,0	19,6
2	A	44, 5	65,7	18,3
3	A	44,7	65,6	18,8
4	.A	44,4	66,0	20,3
5	A	44,5	65,6	18,4
8	A	44,7	66,3	18,4

Chemical composition: in % , remainder Al Cast No.: 4-06-4951

Si 0,043 Zr 0,0017 Al	Fe 0,119 Pb 0,0019	Ti÷Zr	5n 0,0050 Cu/Mg	Be	Na	Zn 0,076 Li 0,0000	V	8 0,0005 H2 (*) 0,06
	* *	0,024	3,190					

(*) = H2 in m1/100 g AL

Other tests:

Dimensional check: OK Surface control: OK

Normative references:

LEGIERUNGSNORM/CHEMICAL COMPOSITION STANDARD/COMPOSITION CHIMIQUE AMS 4037N+ASTM B 209-04+AMS-QQ-A-250/4A SEP198
FESTIGKEITSNORM/MECH. PROP.STANDARD/CARACTERISTIQUE MECANIQUE AMS 4037N+ASTM B 209-04+AMS-QQ-A-250/4A SEP1998

INSPECTION CERTIFICATE (EN 10204/3.1) / TEST REPORT / APPROVED CERTIFICATE

1178149 SERIAL-NO.:

PAGE:

PURCHASER: CHARLESTON ALUMINIUM

ORDER NO. PURCH.: 7679-01/4631-E-01

The second secon

TRADING CO.

ORDER NO. MAN.: 90236

GASTON, SC

SPEC.:

AMS4037+B209+QQ250/4

CUSTOMER PART NO.:

ITEM: 01 LOT: 183665

ALLOY/TEMPER: 2024-T3 BARE

PRODUCT: COIL

QUANTITY: 306 DIMENSIONS: 0.040 x 48.00 x 144.00 INS

ABMESSNORM/DIMENSIONAL TOLERANCE STAN. / NORME TOLERANCES AMS 2202N+ANSI H38.2 2006 BESTELLNORM/SPECIFICATION/NORME AMS 4037N+ASTM B 209-04+AMS-QQ-A-250/4A SEP1998

Bend test:

L-direction

LT-direction OK

ST-direction

Charleston Aluminum LLC 480 Frontage Rd. Gaston, SC 29053

INSPECTION CERTIFICATE (EN 10204/3.1) / TEST REPORT / APPROVED CERTIFICATE

NO.: 1178149

SERIAL-NO.:

PAGE:

PURCHASER: CHARLESTON ALUMINIUM

3 / 63

ORDER NO. PURCH.: 7679-01/4631-E-01

ORDER NO. MAN.: 90236

TRADING CO. GASTON, SC

SPEC.:

AMS4037+BZ09+QQZ50/4

CUSTOMER PART NO.;

Remarks:

CERTIFIED THAT THE WHOLE OF THE SUPPLIES DETAILED HEREON HAVE BEEN INSPECTED, TESTED AND, UNLESS OTHERWISE STATED ABOVE, CONFORM IN ALL RESPECTS WITH THE REQUIREMENTS OF THE SPECIFICATION, CONTRACT OR ORDER.

> Charleston Aluminum LLC 480 Frontage Rd. Gaston, SC 29053

Enclosures:

Koblenz, the 14.11.05 ND

G. Mettle Quality Assurance

Corus Aluminium' Walzprodukte GmbH Koblenz

SHIP TO:

THYSSENKRUPP AEROSPACE(KENT) 5002 D STREET NW BUILDING 35 S AUBURN, WA 98001

SOLD TO:

THYSSENKRUPP AEROSPACE(KENT) 6811 SOUTH 204TH STREET SUITE 400 KENT, WA 98032 KAISER

Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number 4220812

CUSTOMER PO NUMBER: 55F450		VORK PACK					SHIP RUN/LOAD: G		GOVT CO	OVT CONTRACT NUMBER:	
KAISER ORDER NO: 1110688	LINE ITER	INE ITEM: SHIP DATE:		ALLOY: 2024	CLAD: TEMPE		ER:	R: PRODUCT DESCRI		PTION:	
WEIGHT SHIPPED:	QUANTIT 39 PCS		B/L NI 2031	JMBER: 246	GAUGE: 0.0500	N		DIAMETERN 48.000 IN		LENGTH: 144,000 IN	

Certified Specifications

AMS 4041/RevQ CMMP|019/RevD

AMS-QQ-A-250/5/RevA CMMP 025/RevT ASTM B 209/Rev07

Test Code: 1505

Test Results

Lot: 537782A5

Cast 526

Drop 47

Ingot 5

Melted in USA

(ASTM E8/B557)

(EN 2002-1)

Tensile:

e: Temper T3 Dir / # Tests LT / 2 (Min:Max) Ultimate KSI (MPA) 61.2:62.2

Yield KSI (MPA) 41.3:42.5 Elongation % 16.4 : 19.2

(422:429) (285:293)

(ASTM E1251)

OTHER ZR CR ZN TI SI fΕ CU. MN MG Chemistry: TOT 0.05 0.01 0.01 0.01 0.11 0.09 0.19 4.5 0.54 1.3 0.01 Actual

ALLOY LIMITS

MAX MG CR ZN TI ZR OTHER SI FE CU MN 2024 0.05 0.00 0.00 0.00 0.00 0.00 **EACH** 0.30 1.2 3.8 0.00 0.00 MIN 0.05 0.05 TOT 0.15 0.15 0.10 0.25 0.50 0.9 1.8 MAX 0.50 4.9 Liner Alloy: 1230 0.00 0.00 **EACH** 0.03 0.00 0.00 0.00 0.00 MIN 0.00 0.00 0.00 0.00 0.00 0.03 TOT 0.03 0.03 0.05 0.03 MAX 0.30 0.30 0.10 0.05 0.05

Aluminum Remainder

SOLD TO: THE SAND BRANGS GALED WITH SOLD TO: THE SOLD TO: THE SALED SHIPPER NO. THE GOOD SHIP



CERTIFIED TEST REPORT

Serial Number 4220812

Trentwood Works - Spokane, WA 99215

Phone: (800) 367-2586

CERTIFICATION

KAISER ALUMINUM FABRICATED PRODUCTS, LLC (KAISER) HERBY CERTIFIES THAT METAL SHIPPED UNDER THIS ORDER WAS MELTED IN THE UNITED STATES OF AMERICA OR A QUALIFYING COUNTRY PER DFARS 252.872-1(a), WAS MANUFACTURED IN THE UNITED STATES OF AMERICA, AND MEETS THE REQUIREMENTS OF OFARS 252.225 FOR DOMESTIC CONTENT. THIS MATERIAL HAS BEEN INSPECTED, TESTED, AND FOUND IN COMFORMANCE WITH THE REQUIREMENTS OF THE APPLICABLE SPECIFICATIONS AS INDICATED HERBIN. ALL METAL WHICH IS SOLUTION HEAT TREATED COMPLIES WITH AMS 2772. ANY WARRANTY IS LIMITED TO THAT SHOWN ON KAISER'S STANDARD GENERAL TERMS AND CONDITIONS OF SALE. TEST REPORTS SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF KAISER ALUMINUM FABRICATED PRODUCTS, LLC LABORATORY. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTIRES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW. ISO-9001:2000 CERTIFIED.

BILL POYNOR, LABORATORIES SUPERVISOR

Page 2 of 2

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SHIP TO:

Charleston Aluminum LLC 480 Frontage Rd. Gaston, 3C 20053

SOLD TO:

Citarieston aurunum LLC 460 Frontage Rd. ටaston, 80 20053

KAISER ALUMINUM Trentwood Works - Spokane, WA 99215

CERTIFIED TEST REPORT

Serial Number 4212218

NJ 527270			rk pack	AGE:	1			SHIP RUN/LOAD: GOV		GOVT C	T CONTRACT NUMBER:	
1108750 1		EM: SHIP DATE: 8-DEC-2010			ALLOY: 2024	CLAD: BARE	TEMPER:		PRODUCT DESCRIPTION: HT Flat Sheet		PTION:	
WEIGHT SHIPPED: QUANTI 1684 LB 116 PC					iumber: 9955	GAUGE: 0.0200 IN			DIAMETER/WID		LENGTH: 144.000 IN	

Certified Specifications

AMS 4037/RevN

AMS-QQ-A-250/4/Rev A

ASTM 8 209/Rev07

Test Code: 1504

Test Results

Lot: 526944A4 Cast 515

Drop 21

ingot 4

(ASTM E8/8557) (EN 2002-1)

Tensile:

Temper

T3

Dir / # Tests LT / 2 (Min:Max) Ultimate KSI (MPA) 67.1:67.4

Yield KSI (MPA) 44.7:44.9

Elongation % 15.7:15.8

(463:485)

(308:310)

(ASTM E1251)

Chemistry: SI FE CU MN MG CR 7N TI ZR Actual 0.08 0.17 4.5 0.58 0.01 0.18 0.02 0.01 0.00 TOT

ALLOY LIMITS

Chemistry: SI FE CU MN MG CR ΖN TI ZR OTHER MAX 2024 MIN 0.00 0.00 3.8 0.30 1.2 0.00 0.00 0.00 0.00 0.00 **EACH** 0.05 MAX 0.50 0.50 4.9 0.9 1.8 0.10 0.25 0.15 0.05 0.05 0.15 Aluminum Remainder

KAISER ALUMINUM FABRICATED PRODUCTS; LLC KAISERI HERBY CERTIFICS ATTON

KAISER ALUMINUM FABRICATED PRODUCTS; LLC KAISERI HERBY CERTIFIES THAT MEYAL SHIPPED UNDER THIS ORDER WAS MELTED IN THE UNITED STATES OF AMERICA, AND MEETS THE REQUIREMENTS OF DEARS 225,225 FOR DOMESTIC CONTENT, THIS MATERIAL HAS BEEN INSPECTED, TESTED, AND FOUND IN COMFORMANCE WITH THE REQUIREMENTS OF THE APPLICANTIONS AS INDICATED HERBIN THE METAL WHICH IS SOLUTION HEAT TREATED COMPLIES WITH AMS 2772. ANY WARRANTY IS LIMITED TO THAT SHOWN ON KAISER'S STANDARD GENERAL TERMS AND CONDITIONS OF SALE. TEST REPORTS SHALL NOT. BE REPRODUCED EXCEPT IN PULL, WITHOUT THE WRITTEN APPROVAL OF KAISER ALUMINUM FABRICATED PRODUCTS, LLC LABORATORY! THE RECORDING OF FALSE. FICTITIOUS, OR FRAUDUCENT STATEMENTS OR ENTIRES ON THE CERTIFICATE MAY BE PUMISHED AS A FELONY UNDER FEDERAL LAW. ISO. BOOT: 2000 CERTIFIED.

BILL POYNOR, LABORATORIES SUPERVISOR

CAMMY :

Page 1 of 1

OTHER

0.03

Date 05/02/11
Customer Thussen Krupp Materials NA-ECAD
These Tests Are For Material Shipped On Your Order PEC- 229977
From Copper And Brass Sales, Inc. INV/WO 2401246716
WGT 13,824 PCS / OC

FORM: 1006

WORKORDER:

2401246716

COPPER AND BRASS SALES

MATERIAL TYPE

ALUMINIUM ALLOYS

PRODUCT DESIGNATION

2014 2024 2224 2324 7050 7075 7150 7175 7475 ALUMEC 89 ALUMEC 99 QC-7

"WARNING"

SMALL CHIPS, FINE TURNINGS AND DUST MAY IGNITE READILY. EXPLOSION POTENTIAL MAY BE PRESENT WHEN: DUST OR FINES ARE DISPERSED IN THE AIR; FINE, DUST OR MOLTEN ALUMINUM ARE IN CONTACT WITH CERTAIN METAL OXIDES; OR, CHIPS, FINES, DUST OR MOLTEN ALUMINUM ARE IN CONTACT WITH WATER OR MOISTURE. KEEP AWAY FROM IGNITION SOURCE. USE EXPLOSION-PROOF VENTILATION. KEEP MATERIAL DRY.

THIS PRODUCT CONTAINS BERYLLIUM AND COPPER.INHALING BERYLLIUM DUST OR FUMES MAY CAUSE CHRONIC BERYLLIUM DISEASE (CBD),A SERIOUS CHRONIC LUNGDISEASE IN SOME INDIVIDUALS.BERYLLIUM IS A CANCER HAZARD; OVER TIME CBDAND CANCER CAN BE FATAL, TARGET ORGAN IS PRIMARILY THE LUNG.INHALING LARGE AMOUNTS OF COPPER, MAGNESIUM OXIDE, MANGANESE OXIDE, ANDZINC OXIDE FUMES OR DUST MAY CAUSE METAL FUME FEVER WITH FLU-LIKE SYMPTOMS. CHRONIC OVEREXPOUSURE TO COPPER MAY CAUSE THICKENING OF THE SKIN; AND SKIN, TEETH, AND HAIR DISCOLORATION. CHRONIC OVEREXPOUSURE TOMANGANESE DUST CAN CAUSE CENTRAL NERVOUS SYSTEM DAMAGE, SCARRING OF THELUNGS AND REPRODUCTIVE HARM IN MALES. TARGET ORGAN IS PRIMARILY THE LUNG, BUT REPEATED HIGH EXPOSURE CAN ALSO AFFECT THE LIVER. CHRONICOVEREXPOSURE TO IRON OXIDE DUST/FUME MAY CAUSE LUNG SIDEROSIS. CHRONIC OVEREXPOSURE TO SILICON DUST CAN CAUSE CHRONIC BRONCHITIS. OVEREXPOSURE TO AMORPHOUS SILICA CAN CAUSE DRYING OF THE MUCOUSMEMBRANES OF THE EYES, NOSE, AND THROAT.

THIS PRODUCT ALSO CONTAINS NICKEL AND CHROMIUM COMPOUNDS.INHALATION OF NICKEL DUST OR FUME MAY RESULT IN INFLAMMATION OF THE RESPIRATORY TRACTAND CAUSE NASAL AND/OR LUNG CANCER.NICKEL HAS BEEN IDENTIFIED AS A POTENTIAL HUMAN CARCINOGEN.EXPOSURE TO CHROMIUM DUST OR FUMES MAY CAUSE METAL FUME FEVER WITH FLU-LIKE SYMPTOMS AND KIDNEY AND LIVER DAMAGE.UNDER HIGH TEMPERATURES,HEXAVALENT CHROMIUM MAY BE PRODUCED,IF IN THEINSOLUBLE FORM,IT IS A CONFIRMED HUMAN CARCINOGEN.(CALIFORNIA PROPOSITION 65).

IF COATED WITH OIL, MAY CAUSE SKIN IRRITATION/DERMATITIS BY CONTACT. WELDING FUME IS LISTED AS A POSSIBLE CARCINOGENIC TO HUMANS.

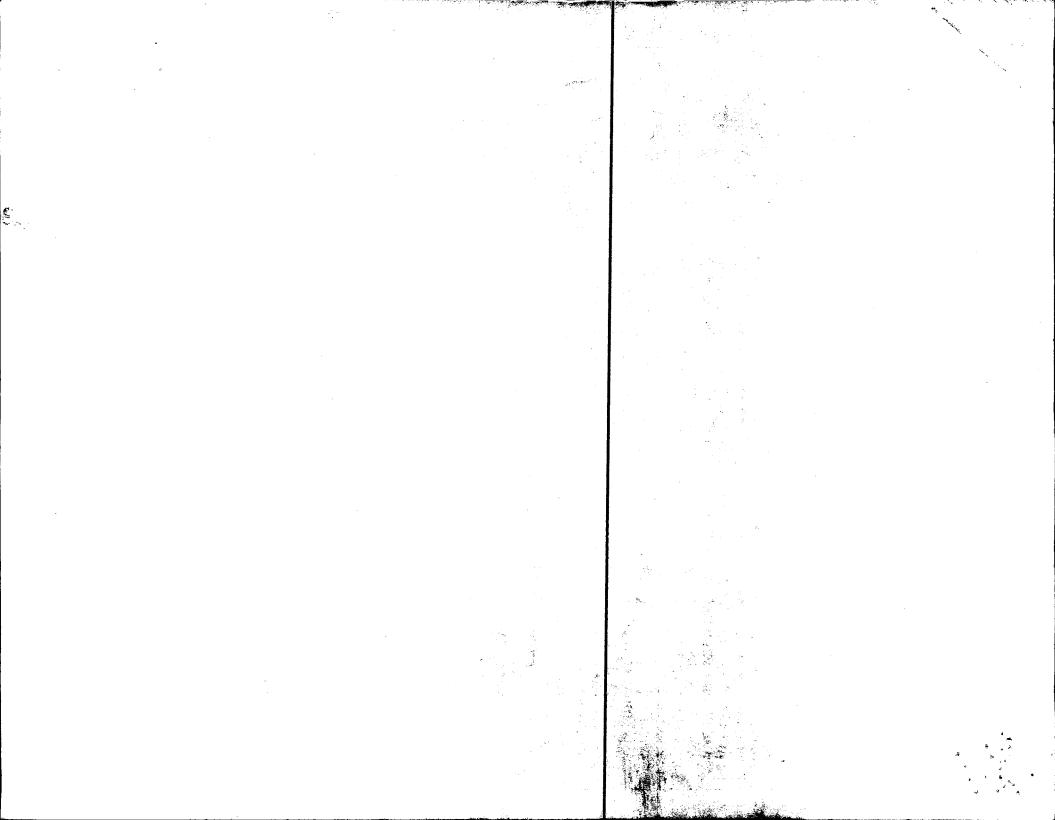
READ THE ALUMINIUM/ALUMINIUM ALLOYS MATERIAL SAFETY DATA SHEET (MSDS) ON FILE WITH YOUR EMPLOYER BEFORE WORKING WITH THIS MATERIAL.

- * If processing or recycling produces particulate, use exhaust ventilation or other controls designed to prevent exposure to workers. Examples of such activities include melting, welding, grinding, abrasive sawing, sanding and polishing. Any activity which abrades the surface of this material can generate airborne particulate. Use appropriate NIOSH approved respiratory protection (P95; P100 for lead with, quantitative fit testing required) if exposures exceed the permissible limits.
- * The Occupational Safety and Health Administration (OSHA) have set mandatory limits on occupational exposures.
- * Aluminum, in solid form and as contained in finished products presents no special health risk.
- * Sold for manufacturing purposes only. This product can be recycled; contact your sales representative.

For additional information, call or write to Copper and Brass Sales,22355 West Eleven Mile Road, Southfield, MI 48033,telephone248-233-5600, or visit our web site @ www.copperandbrass.com.

ALUMINUM LABEL NO. 300-1056

ISSUED 10/01/2008



CERTIFICATE OF TESTS



TALLEY METALS A Carpenter Company

Talley Metals Technology, Inc. P.O. Box 2498 Hartsville, SC. 29551 Tel. (843) 335-7540 Fax. (843) 335-6465

> 2011-04-13 CUSTOMER / BESTELLER / CLIENT

ABNAHMEPRUEFZEUGNIS

CERTIFICAT DF CONTROLE

THE RECORDING OF FALSE, FICTICIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELORY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47. THE YALUE AND OTHER TECHNICAL DATA REPRESENT THE RESULTS OF ANALYSIS AND TESTS MADE ON SAMPLES COLLECTED FROM THIS TOTAL LOT, ORIGINAL DATA RECORDS CAN BE TRACED BY REFERENCE TO THE CARPENTER ORDER MANABER

CROER NUMBER
MATERIAL IS MANUFACTURED FREE FROM MERCURY, RADIUM AND ALPHA SOURCE CONTAMNATION
THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF CARPENTER
TECHNOLOGY CORPORATION.

SELLER / VERKÄUFER / VENDEUR

Page - 1

CUSTOMER ORDER NO/BESTELL - NR/IN* DE COMMANDE	CARPENTER NO,WERKS - NR./N° DE REFERENCE INTERNE	DATE/DATUM/DATE	WEIGHT/GEWICHT/POIDS
5400095931-0120	W92633 W92633	2011-04-13	2525.0
		/	

HEAT NUMBER / SCHMELZE-NR /N° DE COULTE:

PRODUCT DESCRIPTION: TYPE 17-4 SOLUTION ANNEALED ROUGH TURNED PART NUMBER: SSRD00474

SPECIFICATION: TALLEY 174-TIA CAP OF H900 (01/11/99)

AMS 2303 REV F (08/ /10)
AMS 2315 REV F (01/ /08)
AMS 5643 REV R (02/ /08)

ASTM-A484-10 ASTM-A564-10

ASME-SA564 2010 EDITION (TYPE 630)

ASTM-F899-10 (CHEM ONLY)

SIZE 4.000000 IN.(101.60 MM) RD BAR

PRIMARY HEAT CHEMISTRY(WT%): (TEST METHOD IS SHOWN IN PARENTHESIS)

SI(XRF) P (XRF) s (COM) CR (XRF) C (COM) MN(XRF) 0.021 0.020 15.34 0.42 0.027 0.84

n (FUS) TA(XRF) CB (XRF) NI (XRF) MO(XRF) CU (XRF) LT .01 3.70 0.034 0.26 4.25 0.17

CB-FTA

THIS HEAT MELTED BY THE ELECTRIC ARC/AOD PROCESSES

DISCS MACROETCHED AND APPROVED

(MIDRADIUS) HARDNESS AS SHIPPED, HBW

MAGNETIC PARTICLE: FREQUENCY = 0 / SEVERITY = 0

MICROSTRUCTURE - FERRITE 1.39%

SOLUTION ANNEALED - 1900 F, 1 HOUR - RAPID COOL

CONTINUED ON NEXT PAGE

This curlification is made to the customer printed on this form. Carpenter neither makes, nor essumes responsibility for, any representation or exhification to other parties.

Die variegende Zerbägierung list nur für den in diesem Formular generation Kurden göllig. Carpenter übenhandt gegenüber Britten keinertel Haftung für die ausgewiesenen Daten oder Zeräfsbierungen.
Ce certificate est uniquement valebte pour te citent dont te norm est exprimé sur de formulative. Carpenter n'essume pas de responsabilité pour une certification vis-é-vis d'une tierce personne.

Dart Ae	erospace	Ltd
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W/O:			W	ORK ORDER CH	ANGES					
DATE	STEP	PRO	OCEDURE CHA	NGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
						,				
	:									
Part No		PAR #:	Fault Cate	gory:	NC	R: Yes	No DQ	A :	_ Date: _	
	R	esolution:	Dispositio	n:	QA	: N/C CI	osed:		Date: _	
NCR:		\	WORK ORD	ER NON-CONFO	RMANCE	(NCF	1)			
DATE	STEP	Description of NC		Corrective Action	Section B	0:	Verific		Approval	Approval
DATE	SIEF	Section A	Initial Chief Eng	Action Description Chief Eng	otion	Sign 8 Date	Secti	on C	Chief Eng	QC Inspector
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CERTIFICATE OF TESTS

TALLEY METALS A Carpenter Company

Talley Metals Technology, Inc. P.O. Box 2498
Hurtsville, SC. 29551
Tel. (843) 335-7540 Fax. (843) 335-6465

> 2011-04-13 CUSTOMER / BESTELLER / CLIENT

ABNAHMEPRUEFZEUGNIS

CERTIFICAT DE CONTROLE

THE RECORDING OF FALSE, FICTICIDUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES NICLUDING FEDERAL LAW, TITLE 18, CHAPTER 47. THE VALUE AND OTHER TECHNICAL DATA REPRESENT THE RESULTS OF ANALYSS AND TESTS MADE ON SAMPLES COLLECTED FROM THE TOTAL LOT. ORIGINAL DATA RECORDS CAN BE TRACED BY REPERENCE YO'THE CARPENTER ORDER NUMBER MATERIAL IS MANUFACTURED FREE FROM MERCURY, RADIUM AND ALPHA SOURCE CONTAMINATION THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN DOMSENT OF CARPENTER TECHNOLOGY CORPORATION.

SELLER / VERKÄUFER / VENDEUR

GUSTOMER ORDER NO/BESTELL - NR/N* DE COMMANDE	CARPENTER NO./YERKS - NR.JN* DE REFERENCE INTERNE	DATE/DATUM/DATE	WEIGHT/GEWICHT/POIDS
5400095931-0120	W92633 W92633	2011-04-13	2525.0

HEAT NUMBER / SCHMELZE-NR /Nº DE COULEE

G17441

CAPABILITY

900 F(482 C), 01 HR

AIR COOL

(T)RANSVERSE (L)ONGITUDINAL
YIELD STRENGTH, (0.20 %) KSI(MPA)
TENSILE STRENGTH, KSI(MPA)
ELONGATION IN 2.00", %

188.0(1296) 206.0(1420) 13.0

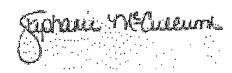
REDUCTION OF AREA, HARDNESS , HBW

42.0 408.0

(CONVERTED FROM TENSILE STRENGTH)

NO WELD REPAIR PERFORMED NO WELD REPAIR FERFORMED MATERIAL PRODUCED ON THIS ORDER WAS MELTED AND MANUFACTURED IN THE U.S.A. MATERIAL HAS BEEN MELTED IN USA OR QUALIFYING COUNTRY TO DEARS REQUIREMENTS 252.225-7014 WITH ALTERNATE 1 FOR QUALIFYING COUNTRY 225.872.1, MENTS 252.225-7014 WITH ANTERNALE I FOR VORHEIT THE COUNTRY 225-825-825. SUPERSEDED BY DEARS REQUIREMENTS DEARS 252.225-7008 AND 252.225-7009. WE HEREBY CERTIFY THAT THE ABOVE TEST DATA ARE IN ACCORDANCE WITH THE PURCHASE ORDER AND SPECIFICATION REQUIREMENTS. CERTIFICATE OF TEST IS PREPARED IN ACCORDANCE WITH PARAGRAPH 3.1 OF EN 10204 (DINSO049)

STEPHANIE E. MCCULLUM QUALITY ASSURANCE ENGINEER CARPENTER TECHNOLOGY CORPORATION



Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES										
DATE	STEP	PRO	OCEDURE CHAN	IGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
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Part No		PAR #:		1		4						
	R	esolution:		1			,,		Date: _			
NCR:		•	WORK ORDE	R NON-CONFÓ	RMAN	CE (NCF	R) -					
DATE	OTED	Description of NC		Corrective Action	Section E		Verifi	cation	Approval	Approval		
DATE	STEP	Section A	Initial Chief Eng	Action Descrip	tion	Sign 8 Date		ion C	Chief Eng	QC Inspector		
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 Corus Auminium Walzprodukte GmbH Postfach 100331 · D-56033 Koblenz

. 2011-May-11 10:30 AM



9056691787





INSPECTION CERTIFICATE (BE 10204/3.1) / TEST REPORT / APPROVED CERTIFICATE

NO.: 1178169

SERIAL-NO.:

PAGE:

1 / 03

PURCHASER: CHARLESTON ALUMINIUM

ORDER NO. PURCH.: 7679-01/4631-E-01

TRADING CO. GASTON, SC

ITEM: 01 LOT: 183665

ORDER NO. MAN.: 90236 SPEC. :

A LOESOS + COSES + CEDARMA

CUSTOMER PART NO. : ALLOY/TEMPER: 2024-T3 BARE

PRODUCT; COIL

QUANTITY: 306 DIMENSIONS: 0.040 x 48.00 x

144.00 INS

RESULTS:

Mechanical properties:

Charleston Aluminum LLC 480 Frontage Fld. Gaston, SC 29053

Pl. No. Spec. No. Y.S. U.T.S.

EI.

		KSI	KSI	%
Min.	LT:	42, 0	63,0	15,0
Max.	LT:			
1	А	44,7	66,0	19,6
· 2	A	44,5	65,7	18,3
3	A	44,7	65, 6	18,6
Ą	A	44, 4	88, Ø	20,3
5	A	44,5	65,6	18,4
8	A	44,7	66,3	18,4

offer in the production of the contract of the Chemical composition: in % , remainder Al

Cast No.: 4-06-4951

51	Fe	Cu	Mn	Mg	Cr	Zn	T1	B	
0,043	0,119	4,626	0,630	1,450	0,002	0,076	6,0228	0,0005	
2r	Pb	Ni	5n	Be	Na	Li	V	H2 (°)	
0.0017	0.0019	0.0052	0.0050	0,0000	0.0001	0,0000	0,0090	0,05	
0,0017 Al	0,0019 Tl	0,0052 T1+2r 0.024	0,0050 · Cu/Mg 3.190	0,0000 Fe/Si	0,0001	0,0000	0,0090	0,04	

(*) = HZ in ml/100 g AL

Other tests:

Dimensional check:

ОK

Surface control:

OK

Normative references:

LEGIERUNGSHORM/CHEMICAL COMPOSITION STANDARD/COMPOSITION CHIMIQUE AMS 4037N+ASTM B 209-04+AMS-99-A-250/4A SEP1998 FESTIGKEITSNORM/MECH, PROP. STANDARD/CARACTERISTIQUE MECANIQUE AMS 4097H+ASTN B 209-04+AMS-QQ-A-250/4A SEP1998

Dart Ae	rospace	Ltd								
W/O:			V	ORK ORDER CH	ANGES					
DATE	STEP	PRO	CEDURE CH	IANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
		÷			,					
		·								
Part No	:	PAR #:	Fault Ca	tegory:	NC	R: Yes	No DQ	A:	Date: _	
	Re	solution:	Disposit	ion:	Q.A	A: N/C CIG	sed:		Date:	
NCR:		V	VORK OR	DER NON-CONFO	PRMANC	E (NCR)			
DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Action Descri	Section B	Sign & Date		cation ion C	Approval Chief Eng	Approval QC Inspector
					·					
										

Corus Aluminium Walzprodukte GmbH Postfach 100331 - D-56033 Koblenz



INSPECTION CERTIFICATE (EN 10204/3.1) / TEST REPORT / APPROVED CERTIFICATE

NO.: 1178149

SERIAL-NO.:

PAGE:

PURCHASER: CHARLESTON ALUMINIUM

2 / 03 ORDER NO. PURCH.: 7679-01/4631-E-01

trading co.

ORDER NO. MAN.: 90235

GASTON, SC

SPEC. : CUSTOMER PART NO. :

AMS4037+B209+QQ250/4

ITEM: 01 LOT: 183665

ALLOY/TEMPER: 2024-T3 BARE

PRODUCT: COIL

QUANTITY: 306 DIMENSIONS: 0.040 x 48.00 x 144.00 INS

ABMESSNORM/DIMENSIONAL TOLERANCE STAN. /NORME TOLERANCES AMS 2202N+ANSI H35.2 2006 BESTELLNORM/SPECIFICATION/NORME AMS 4037N+ASTM B 209-04+AMS-QQ-A-250/4A SEP1998

Bend test:

L-direction

LT-direction OK

ST-direction

Charleston Aluminum LLC 480 Frontage Rd. Gaston, SC 29053

Dart Aerospace Ltd

W/O:			W	ORK ORDER CH	ANGES					
DATE	STEP	PRO	OCEDURE CH	ANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
					·					
Part No		PAR #:	Fault Ca	tegory:	NC	R: Yes	No DQ	A:	Date: _	
	R	esolution:	Disposit	ion:	QA	: N/C CI	osed:		Date: _	
NCR:			WORK OR	DER NON-CONF	RMANCE	(NCF	?)			
		Description of NC		Corrective Action	Section B		Verific	cation	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Descri	otion	Sign & Date	Sect	ion C	Chief Eng	QC Inspector
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- Corus Aluminium Walzprodukte GmbH Postfach 100331 · D-56033 Koblenz



INSPECTION CERTIFICATE (EN 10204/3.1) / TEST REPORT / APPROVED CERTIFICATE

NO.: 1178149

SERIAL-NO.:

PAGE: 3 / 03

FURCHASER: CHARLESTON ALUMINIUM

ORDER NO. PURCH.: 7679-01/4631-E-01

TRADING CO.

ORDER NO. MAN.: 90236

GASTON, SC SPEC. :

ANS4037+BZ09+QQZ50/4

CUSTOMER PART NO. :

Remarks:

CERTIFIED THAT THE WHOLE OF THE SUPPLIES DETAILED HEREON HAVE BEEN INSPECTED, TESTED AND, UNLESS OTHERWISE STATED ABOVE, CONFORM IN ALL RESPECTS WITH THE REQUIREMENTS OF THE SPECIFICATION, CONTRACT OR ORDER.

> Charleston Aluminum LLC 480 Frontage Rd. Gaston, SC 29053

Enclosures:

Koblenz, the 14.11.05 ND

G. Mettlef auality Assurance

Corus Aluminium' Walzprodukte Gmb Koblénz

Dart Aerospace Ltd

Dail Aci	Ospace	LIU								
W/O:			WO	RK ORDER CH	ANGES					
DATE	STEP	PRO	OCEDURE CHAI	NGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
		<u>-</u>								
Part No	•	PAR #:	Fault Cate	gory:	NC	R: Yes	No DQ	A:	Date: _	
	Re	esolution:	Disposition	າ:	QA	: N/C C	losed:		Date: _	
NCR:		1	WORK ORDE	R NON-CONF	RMANCE	(NCF	R)			
	_	Description of NC		Corrective Action	Section B		Verific	cation	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Descri Chief Eng	otion	Sign of Date	& Secti	ion C	Chief Eng	QC Inspector
-										

(3)

SHIP TO:
THYSSENKRÜPP AEROSPACE(KENT)
5002 D STREET NW
BUILDING 35 S
AUBURN, WA 98001

SOLD TO:

THYSSENKRUPP AEROSPACE(KENT) 6811 SOUTH 204TH STREET

SUITE 400 KENT, WA 98032 KAISER

Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number 4220812

CUSTOMER PO NUMBE 55F450	R: V	Nork Pack		USTOMER PA 62322-3	RT NUMBER:		1	RUN/LOAD: 009/6	GOVT C	ONTRACT NUMBER:
KAISER ORDER NO: 1110688	LINE ITER		ATE: 4R-2011	ALLOY: 2024	CLAD:	TEMPI T3	ER:	PRODUCT HT Flat		TION:
WEIGHT SHIPPED:	QUANTIN 39 PCS		вл. NU 20312	MBER: 246	GAUGE: 0.0500	N		DIAMETERN 48.000 IN		length: 144:000 IN

Certified Specifications

AMS 4041/RevQ CMMP|019/RevD AMS-QQ-A-250/5/RevA CMMP 025/RevT ASTM B 209/Rev07

Test Code: 1505

Test Results

Lot: 537782A5

Cast 526

Orop 47

Ingot 5

Melted in USA

(ASTM E8/B557)

(EN 2002-1)

Tensile:	Temper T3	•		Ultimate KSI (MPA) 61.2 : 62.2 (422 : 429)		Yield KSI (MPA) 41.3 : 42.5 (285 : 293)			Elongation % 16.4:19.2			
(ASTM E12	· !51)			•		•						
Chemistry:	SI	řΕ	CŪ.	MN	MG	CR	ZN	TI	٧	ZR		OTHER
Actual	0.09	0.19	4,5	0.54	1.3	0.01	0.11	0.01	0.01	0.01	TOT	0.05
			X		ALLOY I	imits						
	SI	FE	cu	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
2024											64011	0.05
MIN	0.00	0.00	3.8	0.30	1.2	0.00	0.00	0.00	0.00	0.00	EACH	0.05
MAX	0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15	0.05	0,05	TOT	0.15
Liner Alloy:	1230						**					
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	EACH	0.03
MAX	0.30	0.30	0.10	0.05	0.05	0.03	0.05	0.03	0.03	0.03	TOT	0.00
• • •				Æ	luminum A	lemainder						

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES												
DATE	STEP	PRO	OCEDURE CHAN		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector					
Part No:		PAR #:	PAR #: Fault Category:					NCR: Yes No DQA: Date:						
Resolution:			Disposition		QA: N/C Closed: Date:									
NCR:			WORK ORDE	R NON-CONF	ORMAI	NCE (NC	R)							
DATE	OTED	Description of NC Section A		<u></u>	Section B Ver			fication Approval	Approval					
	STEP		Initial Chief Eng	Action Descri Chief Eng	ption	Sign Date	& Secti	on C	Chief Eng	QC Inspector				
•														
				and the state of t										
									!					
3														



2011-May-11 10:31 AM

Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number 4220812

CERTIFICATION

KAISER ALUMINUM FABRICATED PRODUCTS, LLC (KAISER) HEREBY CERTIFIES THAT METAL SHIPPED UNDER THIS ORDER WAS MELTED IN THE UNITED STATES OF AMERICA OR A QUALIFYING COUNTRY PER DEARS 225.872-1(a), WAS MANUFACTURED IN THE UNITED STATES OF AMERICA, AND MEETS THE REQUIREMENTS OF OFARS 252.225 FOR DOMESTIC CONTENT, THIS MATERIAL HAS BEEN INSPECTED, TESTED, AND FOUND IN COMPORMANCE WITH THE REQUIREMENTS OF THE APPLICABLE SPECIFICATIONS AS INDICATED HEREIN, ALL METAL WHICH IS SOLUTION HEAT TREATED COMPLIES WITH AMS 2772. ANY WARRANTY IS LIMITED TO THAT SHOWN ON KAISER'S STANDARD GENERAL TERMS AND CONDITIONS OF SALE, TEST REPORTS SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN APPROVAL OF KAISER ALUMINUM FABRICATED PRODUCTS, LLC LABORATORY. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUGULENT STATEMENTS OR ENTIRES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW. ISO-9001:2000 CERTIFIED.

BILL POYNOR, LABORATORIES SUPERVISOR

Page 2 of 2

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES											
DATE	STEP	PRO		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector					
								!					
Dort No.		DAD #-	Fault Ca	*		ICD: Vac	No. DOA:		Dete	·			
Part No			NCR: Yes No DQA: Date: Date:										
NCR:		V	VORK OR	DER NON-CONF	ORMAN	CE (NCR)						
DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Action Desci	iption	Sign &		Verification Section C		Approval QC Inspector			
			Office Eng	Office Ling		Date							
								<u>.</u>					
								,					
	}			! !		1			1	ĺ			

NOTE: Date & initial all entries

SHIP TO:

Charleston Aluminum LLC 480 Frontage Rd. Gaston, 3C 20053

SOLD TO:

Charleston Junuarium LLC 460 Frontage Rd. Caston, UC 20053

Kaiser ALUMINUM Trentwood Works - Spokans, WA 99215

CERTIFIED TEST REPORT

Serial Number 4212218

CUSTOMER PO NUMBER: WORK P NJ 527270			k Pach	(AGE: (CUSTOMER PA	RT NUMBER			SHIP RUNILDAD: GOV		OVT CONTRACY NUMBER:		
1108750 1		EM; SHIP DATE: 8-DEC-2010			ALLOY: 2024	CLAD; BARE	TEMPI T3	ER:	PRODUCT I	CT DESCRIPTION:			
WEIGHT SHIPPED: QUAN 1684 LB 116 I				2029	UMBER: 955	GAUGE: 0.0200 IN			DIAMETER/WIDT		T-1		

Certified Specifications

AMS 4037/RevN

Lot; 526944A4 Cast 515

Т3



AMS-QQ-A-250/4/RevA

ASTM 8 209/Rev0?

Test Code: 1504

Drop 21

Test Results ingot 4

(ASTM E8/B557)

(EN 2002-1)

Tensile:

Temper

Dir / # Tests LT / 2 (Min:Max)

Ultimate KSI (MPA)

(463:465)

67.1 ; 67.4

Yield KSI (MPA) 44.7:44.9 (308:310)

2,4 (%)

Elongation % 15.7:15.8

(ASTM E1251)

Chemistry: SI FE CU MN MG CR ΖN TI ZR OTHER Actual 0.08 0.17 4.5 0.58 1.3 0.01 0.18 0.02 0.01 0.00 TOT 0.03

ALLOY LIMITS

Chemistry: SI FE CU MN MG ZN TJ ZR OTHER MAX 2024 MIN 0.00 0.00 3.8 0.30 1.2 0.00 0.00 0.00 0.00 0.00 EACH 0.05 MAX 0.50 0.50 4.9 1.8 0.10 0.25 0.15 0.05 TOT 0.15

Aluminum Remainder

CERTIFICATION

CEHTIFICATION

KAISER ALLIMINUM FABRICATED PRODUCTS, LIC (KAISER) THEREBY CENTURES THAT METAL SHIPPED DIDDER THIS ORDER WAS MELTED IN THE UNITED STATES OF AMERICA. AND MEETS THE DEPARS 225.872-101. WAS MANUFACTURED IN THE UNITED STATES OF AMERICA. AND MEETS THE REQUIREMENTS OF DEPARS 252.7225 FOR DOMESTIC CONTENT. THIS MATERIAL HAS BEEN INSPECTED, TESTED, AND FOUND IN COMPORMANCE WITH THE REQUIREMENTS OF THE APPLICABLE PRECIPICATIONS AS INDICATED HEREIN, ALL METAL WHICH IS SOLUTION HEAT TREATED COMPLES WITH AMS 2772. ANY WARRANTY IS LIMITED TO THAT SHOWN ON KAISER'S STANDARD GENERAL TERMS AND CONDITIONS OF SALE, TEST REPORTS SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF KAISER ALUMINUM FABRICATED PRODUCTS; LIC LABORATORY, THE RECORDING DE FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTIRES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW. ISO. 9001:2000 CERTIFIED.

BILL POYNOR, LABORATORIES SUPERVISOR

Page 1 of 1

Dart A	Aeros	pace	Ltd
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W/O:		WORK ORDER CHANGES											
DATE	STEP	PRO		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector					
									1 Tod Wigi				
					<u> </u>								
		<i>,</i>											
Part No	•	PAR #:	Fault Ca	tegory:	NO	R: Yes	No DQ	A:	Date:				
			QA: N/C Closed:										
NCR:		1	WORK OR	DER NON-CONF	ORMANC	E (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action			Sign &		cation ion C	Approval Chief Eng	Approval QC Inspector			
· · · · · · · · · · · · · · · · · · ·		Section A	Chief Eng	Chief Eng		Date	000		Ciliar Ling	de maposte.			
										-			

NOTE: Date & initial all entries

2401246716

FORM: 1006

WORKORDER:

COPPER AND BRASS SALES

MATERIAL TYPE

ALUMINIUM ALLOYS

PRODUCT DESIGNATION

2014 2024 2224 2324 7050 7075 7150 7175 7475 ALUMEC 89 ALUMEC 99 QC-7

"WARNING"

SMALL CHIPS, FINE TURNINGS AND DUST MAY IGNITE READILY. EXPLOSION POTENTIAL MAY BE PRESENT WHEN: DUST OR FINES ARE DISPERSED IN THE AIR; FINE, DUST OR MOLTEN ALUMINUM ARE IN CONTACT WITH CERTAIN METAL OXIDES; OR, CHIPS, FINES, DUST OR MOLTEN ALUMINUM ARE IN CONTACT WITH WATER OR MOISTURE.KEEP AWAY FROM IGNITION SOURCE.USE EXPLOSION-PROOF VENTILATION.KEEP MATERIAL DRY.

THIS PRODUCT CONTAINS BERYLLIUM AND COPPER.INHALING BERYLLIUM DUST OR FUMES MAY CAUSE CHRONIC BERYLLIUM DISEASE (CBD), A SERIOUS CHRONIC LUNGDISEASE IN SOME INDIVIDUALS.BERYLLIUM IS A CANCER HAZARD; OVER TIME CBDAND CANCER CAN BE FATAL, TARGET ORGAN IS PRIMARILY THE LUNG. INHALING LARGE AMOUNTS OF COPPER, MAGNESIUM OXIDE, MANGANESE OXIDE, ANDZINC OXIDE FUMES OR DUST MAY CAUSE METAL FUME FEVER WITH FLU-LIKE SYMPTOMS.CHRONIC OVEREXPOUSURE TO COPPER MAY CAUSE THICKENING OF THE SKIN; AND SKIN, TEETH, AND HAIR DISCOLORATION. CHRONIC OVEREXPOUSURE TOMANGANESE DUST CAN CAUSE CENTRAL NERVOUS SYSTEM DAMAGE, SCARRING OF THELUNGS AND REPRODUCTIVE HARM IN MALES. TARGET ORGAN IS PRIMARILY THE LUNG, BUT REPEATED HIGH EXPOSURE CAN ALSO AFFECT THE LIVER.CHRONICOVEREXPOSURE TO IRON OXIDE DUST/FUME MAY CAUSE LUNG SIDEROSIS. CHRONIC OVEREXPOSURE TO SILICON DUST CAN CAUSE CHRONIC BRONCHITIS.OVEREXPOSURE TO AMORPHOUS SILICA CAN CAUSE DRYING OF THE MUCOUSMEMBRANES OF THE EYES, NOSE, AND THROAT.

THIS PRODUCT ALSO CONTAINS NICKEL AND CHROMIUM COMPOUNDS.INHALATION OF NICKEL DUST OR FUME MAY RESULT IN INFLAMMATION OF THE RESPIRATORY TRACTAND CAUSE NASAL AND/OR LUNG CANCER NICKEL HAS BEEN IDENTIFIED AS A POTENTIAL HUMAN CARCINOGEN.EXPOSURE TO CHROMIUM DUST OR FUMES MAY CAUSE METAL FUME FEVER WITH FLU-LIKE SYMPTOMS AND KIDNEY AND LIVER DAMAGE.UNDER HIGH TEMPERATURES, HEXAVALENT CHROMIUM MAY BE PRODUCED, IF IN THEINSOLUBLE FORM, IT IS A CONFIRMED HUMAN CARCINOGEN.(CALIFORNIA PROPOSITION 65).

IF COATED WITH OIL, MAY CAUSE SKIN IRRITATION/DERMATITIS BY CONTACT. WELDING FUME IS LISTED AS A POSSIBLE CARCINOGENIC TO HUMANS.

READ THE ALUMINIUM/ALUMINIUM ALLOYS MATERIAL SAFETY DATA SHEET (MSDS) ON FILE WITH YOUR EMPLOYER BEFORE WORKING WITH THIS MATERIAL.

- * If processing or recycling produces particulate, use exhaust ventilation or other controls designed to prevent exposure to workers. Examples of such activities include melting, welding, grinding, abrasive sawing, sanding and polishing. Any activity which abrades the surface of this material can generate airborne particulate. Use appropriate NIOSH approved respiratory protection (P95; P100 for lead with, quantitative fit testing required) if exposures exceed the permissible limits.
- * The Occupational Safety and Health Administration (OSHA) have set mandatory limits on occupational exposures.
- * Aluminum, in solid form and as contained in finished products presents no special health risk.
- * Sold for manufacturing purposes only. This product can be recycled; contact your sales representative.

For additional information, call or write to Copper and Brass Sales, 22355 West Eleven Mile Road, Southfield, MI 48033,telephone248-233-5600, or visit our web site @ www.copperandbrass.com.

ALUMINUM LABEL NO. 300-1056

ISSUED 10/01/2008

Dart Aerospace	Ltd	
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W/O:			W	ORK ORDER C	HANGES	3									
DATE	STEP	PRO		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector							
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			•												
			The state of the s												
		÷													
Part No:		PAR #:	PAR #: Fault Category:					NCR: Yes No DQA: Date:							
	R	esolution:	lution: Disposition:				QA: N/C Closed: Date								
NCR:		V	WORK OR	DER NON-CONF	ORMAN	CE (NCF	R)								
5.475	0750	Description of NC Section A		Corrective Action			Verifi	cation	Approval Chief Eng	Approval QC Inspector					
DATE	STEP		Initial Chief Eng	Action Desc Chief Eng		Sign 8 Date		tion C							
Ti.															
<u> </u>															

NOTE: Date & initial all entries

05/02/11 10:42 AM EDT

STELfax

From: THYSSENKRUPP MATERIALS NA

STAN IVERS Tel: 905 669 9444 Fax: 9057389033

To:

DART AEROSPACE Attn: 96294

Tel: 613-632-9577 Fax: 613-632-1053 Number of Pages: 2

Subject: Sales Acknowledgement

780.00

02May11 10:41 SALES ACKNOWLEDGMENT No: PEC ST-326920 Sold By:

THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ONTARIO L4K 5C6

Tel: 905 669 9444 Fax: 9057389033

Sold To: (20115)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7

Ship To: (1)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7

12 PCS @ 65.0000 EA

PO/Rel 13976 Con 96294 S1p STAN IVERS (905-532-1350) Tel 613-632-9577 Fax 613-632-1053 SALES ACKNOWLEDGMENT SO No PEC ST-326920 Test Certs: Chem Y Phys Y 1 Original copies with Shipment, 1 with Invoice _____ 12 PCS 146 LBS 1 ALUMINUM ROUND BAR 7075T7351 3.50" DIA X 12.5000" Part No QQ-A-225/9 <<<---->>> Ga To1 + 0.0000 - 0.0000 Pc/Tag 12 WthTol + 0.0000 - 0.0000 Wt/Skd LthTol + 0.1250 - 0.0000 Ty Pk

ADD ON TO 326915 SUR-CHARGE PAID

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR TO SHIPPING.

ATTN: CHANTAL/LINDA

MATERIAL

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **

** REFERENCED ON IT **

** CUSTOMER PICK-UP HRS / 9:00 AM TO 4:00 PM **

*** TEL. 800-926-2600 ***

***PLEASE NOTE A \$20.00 ENERGY SURCHARGE WILL BE ADDED TO EVERY ORDER. ***

Taxes: ONHSTS 101.40

Page: 1 Last

02May11 10:39 SALES ACKNOWLEDGMENT No: PEC ST-326915 Sold By:

THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ONTARIO L4K 5C6

Tel: 905 669 9444 Fax: 9057389033

Sold To: (20115)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7

Ship To: (1)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7

Trm NET 30 DAYS/NET 30 JOURS Ord 02May11 Due05May11 Via VIM TRANSFER TRUCK FOB CONCORD Frt PREPAID PO/Rel 13976 Con 96294 Slp STAN IVERS (905-532-1350) Tel 613-632-9577 Fax 613-632-1053 SALES ACKNOWLEDGMENT SO No PEC ST-326915 Test Certs: Chem Y Phys Y 1 Original copies with Shipment, 1 with Invoice ______ 10 PCS 1 STAINLESS STEEL ROUND BAR 17-4 HFRT 181 LBS 4.00" DIA X 5.1000" Part No ASTM A564 <<<---->>> Ga Tol + 0.0000 - 0.0000 Pc/Tag 10 WthTol + 0.0000 - 0.0000 Wt/Skd LthTol + 0.1250 - 0.0000 Ty Pk 10 PCS @ 82.5000 EA 20.0000 LOT MATERIAL ENERGY & CAP SURCHG 20.00 4 PCS 108 LBS 2 ALUMINUM SHEET 2024 -T3 .0400 Nom X 48.0000" X 144.0000" Part No QQ-A-250/4 4 PCS @ 159.5000 EA MATERIAL ______ 3 PCS 3 ALUMINUM SHEET 2024 -T3 .0500 Nom X 48.0000" X 144.0000" Part No 4-6 DAYS A.R.O QQ-A-250/4 3 PCS @ 199.0000 EA 597.00 MATERIAL 1 PCS 13 LBS 4 ALUMINUM SHEET 2024 -T3 .0200 Nom X 48.0000" X 144.0000" . 137. 50 1 PCS @ 137.5000 EA

 , . · 02May11 10:39 No: PEC ST-326915 SALES ACKNOWLEDGMENT

Sold By: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ONTARIO L4K 5C6

Tel: 905 669 9444 Fax: 9057389033

Sold To: (20115)

Ship To: (1) DART AEROSPACE

DART AEROSPACE

S A L E S $\,$ A C K N O W L E D G M E N T $\,$ SO No PEC ST-326915 Test Certs: Chem Y Phys Y 1 Original copies with Shipment, 1 with Invoice ***PLEASE NOTE A \$20.00 ENERGY SURCHARGE WILL BE

ADDED TO EVERY ORDER. ***

Order Totals: 4 Items 403 LBS **********************
 Material
 Processing
 Freight
 Other
 Taxes
 ORDER AMT

 2,197.50
 20.00
 288.28
 2,505.78
 2, 197, 50 ******************

Taxes: ONHSTS 288.28



Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7

Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO13976

Purchase Order Date 4/28/2011 PO Print Date 4/28/2011

Page Number 1 of 2

Order From:

VC-COP001

THYSSENKRUPP MATERIALS CA LTD O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A" TORONTO, ON M5W 5V8

CA

Contact Name

905 669 9444

Vendor Phone Vendor Fax

905 738 9033

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607 Net 30

Terms Currency

CAD

FOB

Destination-Collect

Ship To:

DART AEROSPACE LTD

1270 ABERDEEN HAWKESBURY, ON K6A 1K7

CANADA

Line Ni	or Reference Revision ID Vendor Part	Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	D6103-003P		round alum billet	5/6/2011	12.00	Yours ppd	\$65,0000	\$780.00
				Yes	Each			

Special Inst:

AS PER DWG D6103 REV. B

MATERIAL: 7075-T7351 AS PER QQ-A-

225/9

SIZE: 3.500" X 12.500" LONG

TOLERÂNCE ON ALL DIMENSION ARE

+0.030"/-0.000"

D6104-005P

17-4 SS Roundbar 4.00"OD

5/6/2011

Yes

10.00 Yours ppd

Each

\$82.5000

\$825.00

Special Inst:

AS PER DWG D6104 REV. B

B68922

MATERIAL: 17-4PH STAINLESS STEEL AS PER AMS 5643 OR AISI 630

TOLERANCE ON ALL DIMENSION ARE

+0.030"/-0.000

Alum. sheet .020

5/6/2011

Yes

48.00 Yours ppd

\$2.8646

\$137.50

mot 03:

No substitution or deviation without

consent.

Certificate of Conformity or Material Certification required when applicable

Change Nbr:

Change Date: 4/28/2011



Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7

Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO13976

Purchase Order Date 4/28/2011 PO Print Date 4/28/2011

Page Number 2 of 2

Order From:

VC-COP001

THYSSENKRUPP MATERIALS CA LTD O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A" TORONTO, ON M5W 5V8

CA

Contact Name

905 669 9444

Vendor Phone Vendor Fax

905 738 9033

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607 Net 30

Terms Currency

CAD

FOB

Destination-Collect

Special Inst:

MATERIAL: 2024-T3 ALUMINUM SHEET

QQ-A-250/4 OR AMS-QQ-A-250/4 OR

AMS 4037

OR ASTM B209

M2024T3S.040

2024-T3 .040 sheet

196.00 Yours ppd \$3.3229

\$651.29

022

5/6/2011 Yes

Special Inst:

AS ABOVE

M2024T3S.050

5

2024-T3 .050 sheet

5/6/2011

Yes

144.00 Yours ppd

\$4.1458

\$597.00

22

Special Inst:

AS ABOVE

PO Total:

\$2,990.78

MATERIAL CERTIFICATION REQ'D UPON DELIVERY

No substitution or deviation without

Certificate of Conformity or Material Certification required when applicable

Change Nbr:

Change Date: 4/28/2011

TRANSMISSION VERIFICATION REPORT

TIME : 04/28/2011 NAME : FAX : TEL : SER.# : F9N212739

: 04/28/2011 14:48

DATE,TIME FAX NO./NAME DURATION PAGE(S) RESULT MODE

04/28 14:48 19057389033 00:00:31 02 OK STANDARD ECM

QUOTATION

No: PEC ST-325950

Quoted By: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ONTARIO L4K 5C6 Tel: 905 669 9444 Fax: 9057389033

Quoted To: (20115)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7

Quoted Ship To: (1)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7

Qtd 27Apr11 Qte Ref Trm NET 30 DAYS/NET 30 JOURS FOB Via Frt PREPAID Tel 613-632-9577 Fax 613-632-1053 Ctc CHANTAL Slp STAN IVERS (905-532-1350) Q U O T A T I O N QT No: PEC ST-325950 Test Certs: Chem-Y Phys-Y 1 Original copies with Shipment, 1 with Invoice 185 LBS 1 STAINLESS STEEL ROUND BAR 17-4 STAINLESS 10 PCS 4.00" DIA X 5.1000" Part No ASTM A564 4-6 DAYS A.R.O <<<---->>> Ga Tol + 0.0000 - 0.0000 Pc/Tag WthTol + 0.0000 - 0.0000 Wt/Skd 0.1250 - 0.0000 Ty LthTol + 82.5000_EA 825.00 MATERIAL 20.00 20.0000 LOT ENERGY & CAP SURCHG 146 LBS 12 PCS 2 ALUMINUM ROUND BAR 7075T7351 3.50" DIA X 12.5000" Part No QQ-A-225/9 4~6 DAYS A.R.O <<<----- SPECIFICATIONS ------Ga Tol + 0.0000 - 0.0000 Pc/Tag WthTol + 0.0000 - 0.0000 Wt/Skd LthTol + 0.1250 - 0.0000 Ty PCS_0 65.0000 EA 780.00 MATERIAL 3 ALUMINUM SHEET (2024_-T3) 108 LBS 4 PCS (0400) Nom X 48. 0000" X 144. 0000" Part No 4-6 DAYS A. R. O QQ-A-250/4 159.5000 EA LG MATERIAL 101 LBS 3 PCS 4 ALUMINUM SHEET 2024 -T3 [0500]Nom X 48.0000" X 144.0000" Part No 4-6 DAYS A. R. O QQ-A-250/4 597.00 3 PCS @ MATERIAL MILL TEST REPORTS, PACKING SLIPS ARE TO SENT WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR

Page: 1 Continued

TO SHIPPING.

ATTN: CHANTAL/LINDA

QUOTATION

No: PEC ST-326232

Quoted By: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ONTARIO L4K 5C6

Tel: 905 669 9444 Fax: 9057389033

Quoted To: (20115) DART AEROSPACE 1270 ABERDEEN ST HAWKESBURY, ON K6A 1K7 Quoted Ship To: (1) DART AEROSPACE 1270 ABERDEEN ST HAWKESBURY, ON K6A 1K7

Trm NET 30 DAYS/NET 30 JOURS Qtd 28Apr11 Qte Ref

FOB Via

Frt PREPAID

Tel 613-632-9577 Fax 613-632-1053 Ctc CHANTAL

Slp STAN IVERS (905-532-1350)

Q U O T A T I O N QT No: PEC ST-326232

Test Certs: Chem-Y Phys-Y 1 Original copies with Shipment, 1 with Invoice _____

1 ALUMINUM SHEET 2024 -T37 0200 Nom X 48.0000" X 144.0000"

Part No 4-6 DAYS A.R.O

MATERIAL

ENERGY & CAP SURCHG

3.4375 (137.5000 EA) TPCS @

20.0000 LOT 25.0000 LOT

1 PCS

137.50 20.00 25.00

13 LBS

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **

** REFERENCED ON IT **

Price in effect at time of shipment.

Price based on receipt of total order.

All weights are theoretical.

All orders are subject to credit approval.

**** TEL. 800-926-2600 ****

*** CUSTOMER PICK-UP HOURS ***

*** 9:00 AM TO 4:00 PM *** ***************

WE STOCK STAINLESS STEEL!!!!!

PLEASE LET US QUOTE YOUR NEXT REQUIREMENT

***PLEASE NOTE A \$20.00 ENERGY SURCHARGE WILL BE

ADDED TO EVERY ORDER. ***

Order Totals: 1 Items 13 LBS ***************** Other Taxes ORDER AMT Material Processing Freight 45.00 23.73 206.23

Taxes: ONHSTS 23.73

0.00

0.00

0.00

Page: 1 Last

Chantal Lavoie

From:

Desbiens, Marc <mdesbien@amcastle.com>

Sent:

April 26, 2011 11:34 AM

To:

Chantal Lavoie

Subject:

RE: quote

Hi Chantal,

price & delivery on material.

D6104-005 x 10 \$ 78.25 pce 10 days
D6103-003 x 12 offer 11 pcs (or 22 pcs) \$ 71.00 pce 10 days

Thanks

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